1. A method of forming dual damascene openings in the fabrication of an integrated circuit device comprising: providing metal lines covered by an insulating

layer overlying a semiconductor substrate;

depositing a first organic dielectric layer overlying said insulating layer;

depositing a second inorganic dielectric layer overlying said first dielectric layer;

etching a via pattern into said second dielectric layer;

etching said via pattern into said first dielectric layer using patterned said second dielectric layer as a mask; and

thereafter etching a trench pattern into said second inorganic dielectric layer to complete said forming of said dual damascene openings in the fabrication of said integrated circuit device.

2. The method according to Claim 1 further comprising forming semiconductor device structures including gate electrodes and source and drain regions in and on said semiconductor substrate wherein said metal lines overlie and contact said semiconductor device structures.

3. The method according to Claim 1 wherein said first organic dielectric layer comprises one of the group containing: polyimides, HOSP, SILK, FLARE, BCB, MSQ, and organic polymers.

- 4. The method according to Claim 1 wherein said second inorganic dielectric layer comprises one of the group containing: CORAL, BLACK DIAMOND, FSG, carbon-doped FSG, T3MS, XLK, and HSQ.
- 5. The method according to Claim 1 further comprising filling said dual damascene openings with a metal layer.

6. A method of forming dual damascene openings in the fabrication of an integrated circuit device comprising: providing metal lines covered by an insulating layer overlying a semiconductor substrate;

depositing a first organic dielectric layer overlying said insulating layer;

depositing a second inorganic dielectric layer overlying said first dielectric layer;

etching a trench pattern into said second dielectric layer; and

thereafter etching a via pattern through said second inorganic dielectric layer and said first organic

dielectric layer to complete said forming of said dual damascene openings in the fabrication of said integrated circuit device.

7. The method according to Claim 6 further comprising forming semiconductor device structures including gate electrodes and source and drain regions in and on said semiconductor substrate wherein said metal lines overlie and contact said semiconductor device structures.

- 8. The method according to Claim 6 wherein said first organic dielectric layer comprises one of the group containing: polyimides, HOSP, SILK, FLARE, BCB, MSQ, and organic polymers.
- 9. The method according to Claim 6 wherein said second inorganic dielectric layer comprises one of the group containing: GORAL, BLACK DIAMOND, FSG, carbon-doped FSG, nitrogen-doped FSG, Z3MS, XLK, and HSQ.
- 10. The method according to Claim 6 further comprising filling said dual damascene openings with a metal layer.

11. A method of forming dual damascene openings in the fabrication of an integrated circuit device comprising:

providing metal lines covered by an insulating layer overlying a semiconductor substrate;

depositing a first organic dielectric layer overlying said insulating layer;

depositing a second inorganic dielectric layer overlying said first dielectric layer;

etching a via pattern into said second dielectric layer; and

simultaneously etching said via pattern into said first dielectric layer and etching a trench pattern into said second inorganic dielectric layer to complete said forming of said dual damascene openings in the fabrication of said integrated circuit device.

12. The method according to Claim 11 further comprising forming semiconductor device structures including gate electrodes and source and drain regions in and on said semiconductor substrate wherein said metal lines overlie and contact said semiconductor device structures.

13. The method according to Claim 11 wherein said first organic dielectric layer comprises one of the group containing: polyimides, HOSP, SILK, FLARE, BCB, MSQ, and organic polymers.

- 14. The method according to Claim 11 wherein said second inorganic dielectric layer comprises one of the group containing: CORAL, BLACK DIAMOND, FSG, carbon-doped FSG, nitrogen-doped FSG, Z3MS, XLK, and HSQ.
- 15. The method according to Claim 11 further comprising filling said dual damascene openings with a metal layer.

16. A method of forming dual damascene openings in the fabrication of an integrated circuit device comprising:

providing metal lines covered by an insulating layer overlying a semiconductor substrate;

depositing a first inorganic dielectric layer overlying said insulating layer;

depositing a second organic dielectric layer overlying said first dielectric layer;

etching a via pattern into said second dielectric layer;

etching said via pattern into said first dielectric layer using patterned said second dielectric layer as a mask; and

thereafter etching a trench pattern into said second inorganic dielectric layer to complete said forming of said dual damascene openings in the fabrication of said integrated circuit device.

17. The method according to Claim 16 further comprising forming semiconductor device structures including gate electrodes and source and drain regions in and on said semiconductor substrate wherein said metal lines overlie and contact said semiconductor device structures.

18. The method according to Claim 16 wherein said first inorganic dielectric layer comprises one of the group containing CORAL, BLACK DIAMOND, FSG, carbon-doped FSG, nitrogen-doped FSG, Z3MS, XLK, and HSQ.

- 19. The method according to Claim 16 wherein said second organic dielectric layer comprises one of the group containing: polyimides, HOSP, SILK, FLARE, BCB, MSQ, and organic polymers.
- 20. The method according to Claim 16 further comprising filling said dual damascene openings with a metal layer.

21. A method of forming dual damascene openings in the fabrication of an integrated circuit device comprising: providing metal lines covered by an insulating layer overlying a semiconductor substrate;

depositing a first inorganic dielectric layer overlying said insulating layer;

depositing a second organic dielectric layer overlying said first dielectric layer;

etching a trench pattern into said second dielectric layer; and

thereafter etching a via pattern through said second inorganic dielectric layer and said first organic dielectric layer to complete said forming of said dual damascene openings in the fabrication of said integrated circuit device.

22. The method according to Claim 21 further comprising forming semiconductor device structures including gate electrodes and source and drain regions in and on said semiconductor substrate wherein said metal lines overlie and contact said semiconductor device structures.

23. The method according to Claim 21 wherein said first inorganic dielectric layer comprises one of the group containing: CORAL, BLACK DIAMOND, FSG, carbon-doped FSG, nitrogen-doped FSG, Z3MS, XLK, and HSQ.

24. The method according to Claim 21 wherein said second organic dielectric layer comprises one of the group containing: polyimides, HOSP, SILK, FLARE, BCB, MSQ, and organic polymers.

25. The method according to Claim 21 further comprising filling said dual damascene openings with a metal layer.

26. A method of forming dual damascene openings in the fabrication of an integrated circuit device comprising:

providing metal lines covered by an insulating layer overlying a semiconductor substrate;

depositing a first inorganic dielectric layer overlying said insulating layer;

depositing a second organic dielectric layer overlying said first dielectric layer;

etching a via pattern into said second dielectric layer; and

simultaneously etching said via pattern into said first dielectric layer and etching a trench pattern into said second inorganic dielectric layer to complete said forming of said dual damascene openings in the fabrication of said integrated circuit device.

27. The method according to Claim 26 further comprising forming semiconductor device structures including gate electrodes and source and drain regions in and on said semiconductor substrate wherein said metal lines overlie and contact said semiconductor device structures.

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- 28. The method according to Claim 21 wherein said first inorganic dielectric layer comprises one of the group containing: CORAL, BLACK DIAMOND, FSG, carbon-doped FSG, nitrogen-doped FSG, Z3MS, XLK, and HSQ.
- 29. The method according to Claim 26 wherein said second organic dielectric layer comprises one of the group containing: polyimides, HOSP, SILK, FLARE, BCB, MSQ, and organic polymers.
- 30. The method according to Claim 21 further comprising filling said dual damascene openings with a metal layer.